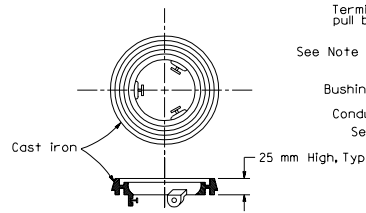
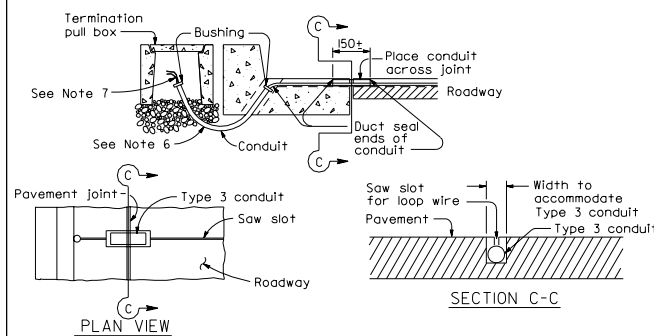
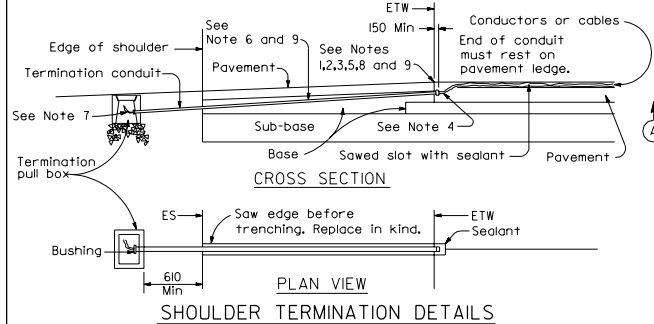


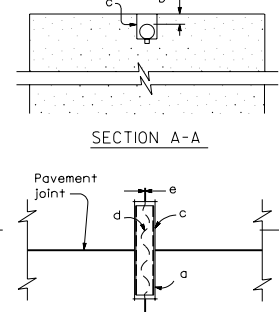
TYPE A DETECTOR HANDHOLE DETAILS



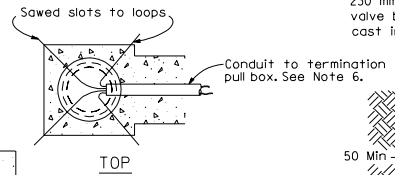
CURB TERMINATION DETAILS
TYPE A

NOTE
Use for Type A detector handhole on pavement resurfacing only.

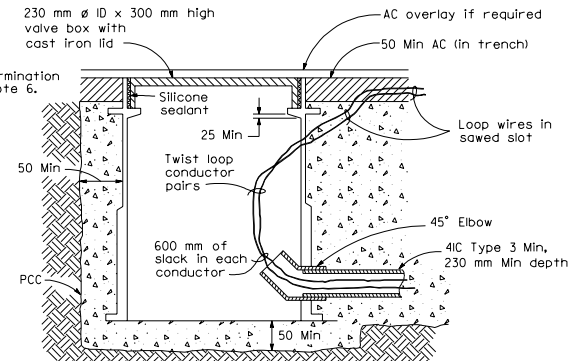
LOCKING GRADE RING



TYPICAL LOOP LEAD-IN DETAILS
AT PAVEMENT JOINT



- 21C, Type 3 conduit 150 mm long minimum, plug both ends with caulking compound to keep out sealant.
- 13 mm minimum between top of conduit and pavement surface.
- Saw cut shall not exceed 25 mm in width and 3 mm longer than conduit to be installed.
- Conductors with 13 mm minimum slack inside conduit.
- Inductive loop detector saw slot.



TYPE B DETECTOR HANDHOLE DETAILS

INSTALLATION REQUIREMENTS
TYPE B DETECTORS HANDHOLE

- Outline of trench shall be saw cut to a minimum depth of 80 mm except where asphalt concrete overlay is to be placed.
- The valve box shall be fabricated of calcium carbonate and polyester resins with fiberglass reinforcement and designed for heavy traffic loads.
- Cast iron lid shall be marked "Detector" and shall be secured in place by applying waterproof silicone sealant. Valve box shall be centered on lane line, unless otherwise shown on the plans.
- Entire length of trench, from valve box to adjacent pull box, shall be backfilled with portland cement concrete except the top 50 mm in asphalt concrete surfaced roadways shall be backfilled with asphalt concrete.

NOTES (This sheet only)

- Bushing shall be used at roadway end of conduit.
- Tape detector conductors or cables 75 mm each side of bushing.
- Install duct seal compound to each end of termination conduit before installing sealant.
- Round all sharp edges where detector conductors or cables have to pass.
- End of conduit shall be 80 mm below roadway surface.
- Conduit size

Conduit Size	Loop Conductors	Magnetometer Cables
27C Minimum	1 to 2 pairs	1 to 3 cables
41C Minimum	3 to 4 pairs	4 to 8 cables
53C Minimum	5 or more pairs	9 or more cables
- Splice detector conductors or cables to lead-in cable run to controller cabinet.
- Location of detector handhole when shown on plans.
- When the shoulder and traveled way are paved with the same material and there is no joint between them, the conduit shall extend only 600 mm into the shoulder pavement.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET TOTAL

REGISTERED ELECTRICAL ENGINEER
 July 1, 1999
 PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
 Sonoma
 License No. E13633
 Exp. 6-30-03
 ELECTRICAL
 STATE OF CALIFORNIA

**SIGNAL, LIGHTING AND
ELECTRICAL SYSTEMS
DETECTORS**

NO SCALE
 ALL DIMENSIONS ARE IN
 MILLIMETERS UNLESS OTHERWISE SHOWN